IN THE CLAIMS

Please make the following claim substitutions:

1. (Currently amended) A method for use in a node of a ~~packet~~ network, ~~the method~~ comprising ~~the steps of~~:

   storing location information of other nodes of the ~~packet~~ network, wherein said location information comprises a global position represented by at least two coordinates; and

   exchanging the stored location information with adjacent nodes of the ~~packet~~ network.

2. (Original) The method of claim 1 wherein the stored location information further comprises associated time-stamp information for indicating an age of the location information of the other nodes.

3. (Currently amended) A method for use in a node of a ~~packet~~ network, ~~the method~~ comprising ~~the steps of~~:

   storing location information of other nodes of the ~~packet~~ network, wherein said location information comprises a global position represented by at least two coordinates;

   receiving location information from at least one adjacent node of the ~~packet~~ network; and

   merging the received location information with the stored location information ~~for updating~~ to update the stored location information ~~to more current values~~.

4. (Currently amended) The method of claim 3, wherein the stored location information further comprises associated time-stamp information ~~for indicating~~ to indicate an age of the location information of the other nodes and wherein the merging ~~step~~ compares time-stamp information of said received location information to time-stamp information of said stored location information for determining ~~the~~ more current values.

5. (Currently amended) A method for use in a node of a ~~packet~~ network, ~~the~~

2   ~~method~~ comprising ~~the steps of~~:

3   transmitting location information of the node to other nodes of the ~~packet~~ network

4   that are a part of a local topology of the node, wherein said location information

5   comprises a global position represented by at least two coordinates; and

6   transmitting a location list to nodes of the local topology that are adjacent,

7   wherein the location list comprises location information of ~~at least some~~ at least some of

8   the nodes of the ~~packet~~ network.

1   6. (Currently amended) The method of claim 5, wherein the location list further

2   comprises associated time-stamp information ~~for indicating~~ to indicate an age of the

3   location information of the ~~at least some~~ at least some of the nodes of the ~~packet~~

4   network.

1   7. (Original) The method of claim 5 wherein at least one of the transmitting steps

2   is periodically performed.

1   8. (Currently amended) The method of claim 5, further comprising ~~the steps of~~:

2   receiving location information from at least one adjacent node of the local

3   topology; and

4   merging the received location information with the location list ~~for updating~~ to

5   update the location list ~~to more current values~~.

1   9. (Currently amended) Apparatus for use in a node of a ~~packet~~ network, the

2   apparatus comprising:

3   a global positioning system receiver for determining location information of the

4   node;

5   a memory for storing a location list comprising location information for other

6   nodes of the ~~packet~~ network, wherein said location information comprises a global

7   position represented by at least two coordinates; and

8   a communications interface for transmitting, at different times, the determined

9   location information of the node, and the stored location list, to at least one other node
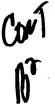
10   of the ~~packet~~ network.

1   10. (Currently amended) Apparatus for use in a node of a ~~packet~~ network, the
2   apparatus comprising:
3   ~~a memory for storing a location list comprising location information for other~~
4   ~~nodes of the packet network; and~~
5   means for generating a location list comprising location information for other
6   nodes of the network from at least one adjacent node, wherein said location information
7   comprises a global position represented by at least two coordinates; and
8   a communications interface for transmitting the ~~stored~~ generated location list to
9   at least one adjacent node ~~of the packet network~~.

1   11. (Currently amended) The apparatus of claim 10, further comprising a
2   processor, ~~and~~ wherein ~~the communications interface receives a location list from at~~
3   ~~least one adjacent node of the packet network and~~ the processor merges the received
4   location list with the stored location list ~~for updating~~ to update the stored location list ~~to~~
5   ~~more current values~~.

1   12. (New)   The method of claim 1, wherein said node stores a local topology
2   and said node stores said location information of other nodes within and outside said
3   local topology.

1   13. (New)   The method of claim 12, wherein said node uses a geometry-based
2   routing protocol to transmit said location information to nodes outside of said local
3   topology.

1   14. (New)   The method of claim 13, wherein said node determines a distance
2   from a destination node outside of said local topology to nodes in said local topology
3   using said geometry-based routing protocol and said location information to identify the
4   closest node in said local topology for routing to said destination node.

1   15. (New)   The method of claim 1, wherein said node determines said
2   coordinates from information received from a global positioning system.

1   16. (New) A method for use in a node of a network comprising:

2   transmitting location information of the node to other nodes of the network that

3   are a part of a local topology of the node, wherein said location information comprises a

4   global position represented by at least two coordinates;

5   receiving location information from at least one adjacent node of the network;

6   and

7   updating said location information stored at said node with said received location

8   information.

1   17. (New)   The method of claim 12, said local topology of said node being

2   nodes located within a predetermined number of hops from said node.

1   18. (New)   The method of claim 17, wherein said local topology of said node

2   comprises a first set of nodes having a point-to-point link to said node and a second set

3   of nodes having a point-to-point link to a node in said first set of nodes.

1   19. (New) A method for use in a node of a network, comprising:

2   a) receiving a location list comprising location information for other nodes of the

3   network from at least one adjacent node, wherein said location information comprises a

4   global position represented by at least two coordinates;

5   b) generating said location list;

6   c) transmitting the generated location list to at least one adjacent; and

7   d) repeating steps a) through c).